

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110001-7

Eggn

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110001-7"

R22L #221

Khlebnikov, P.

tg

GAL'PERSHTEYN, I.; KhLEBNIKOV, P.

Homemade loudspeaker. Znan. sila no.11:suppl.2-4 N '54. (MLRA 8:1)  
(Radio--Receivers and reception)

BOGATKOV, V.; GAL'PERSHTYN, L.; KHLERBNIKOV, P.

Electric meters. Znan.sila 30:me.12:insert:1-3 D 155. (MLRA 9:4)  
(Electric meters)

KHLEBNIKOV, P.

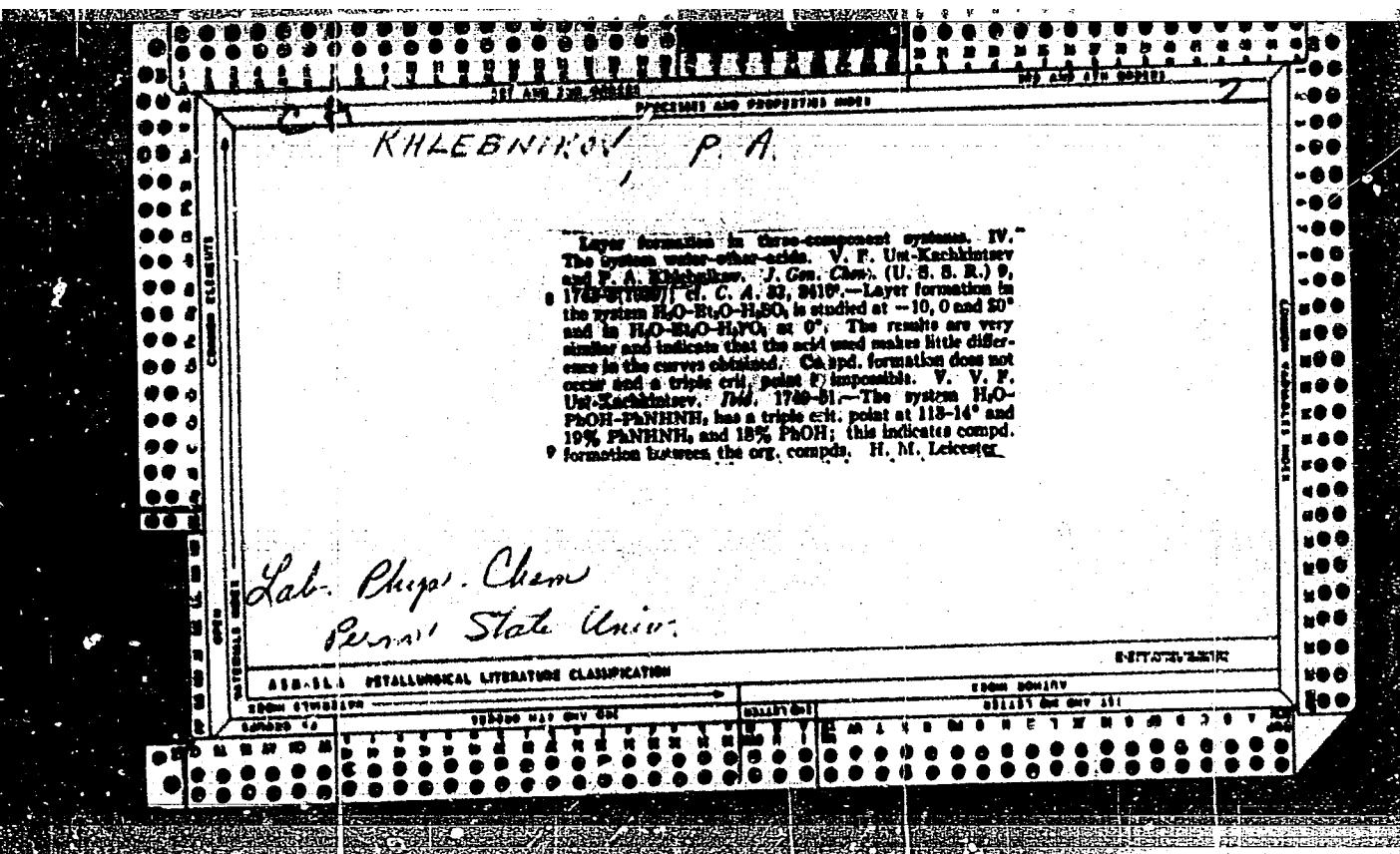
Watch repairing should be put on an assembly-line basis.  
Prom.koop. 13 no.8:24-25 Ag '59. (MIRA 12:12)

1. Nachal'nik otdela r'monta metalloisdeliy Glavnogo uprav-  
leniya predpriyatiy bytovogo obsluzhivaniya.  
(Clocks and watches--Repairing and adjusting)  
(Assembly-line methods)

KHLEBNIKOV, P.

The volume of work is growing. Are we ready for it? Prom.koop,  
14 no.1:22-23 Ja '60. (MIRA 13:5)

1. Nachal'nik otdela glavnogo upravleniya predpriyatiy bytovogo  
obsluzhivaniya Rospromsoveta.  
(Service industries)



KHLEBNIKOV, P.G.; KOMAROVA, V.V., red.; ZAV'YALOV, S.N., tekhn. red.

[Repairing electric vacuum cleaners] Remont elektropylesosov.  
Moskva, Gostmestpromizdat, 1962. 43 p. (MIRA 15:6)  
(Vacuum cleaners)

POKAZAN'YEV, Aleksandr Arkad'yevich, zhurnalista; BOROZDIN, Ye.A.,  
retsenszent; KHLEBNIKOV, P.I., retsenszent; BAKHMUTOVA, V.,  
red.

[The city where I live] Gorod, v kotorom ja zhivu.  
Sverdlovsk, Sverdlovskoe knishnoe izd-vo, 1963. 71 p.  
(MIRA 17:6)

1. Plavil'shchik Sredne-Ural'skogo medeplavil'nogo zavoda,  
gorod Revda (for Pokazan'yev). 2. Sekretar' partiynogo ko-  
miteta Sredne-Ural'skogo medeplavil'nogo zavoda, gorod Revda  
(for Khlebnikov).

KHLEBNIKOV, P.O.

Planting corn with interrows of 210 cm in the southern Ukraine.  
Mekh.sil'. hosp. 9 no.3:11-13 Mr '58. (MIRA 11:4)

1. Ukrains'kiy naukovo-doslidniy institut zroshuvannogo zemlerobstva.  
(Ukraine--Corn (Maize))

GAL'PERSHTEYN, Leonid Yakovlevich; KHLERBNIKOV, Petr Petrovich; ZUBKOV,  
M.A., otv. red.; TOKAREVA, T.M., tekhn. red.

[The young physicist's laboratory] Laboratoriia iunogo fizika.  
Moskva, Detgiz, 1962. 126 p. (MIRA 15:6)  
(Physical laboratories)

KHLEBNIKOV, R.

Twenty-one workshops are not enough. Prom.koop. 13 no.3:18-19  
Mr '59. (MIRA 12:4)

1. Nachal'nik otdela remonta metalloizdeliy Glavnogo upravleniya  
predpriyatiy bytovogo obsluzhivaniya Rosspromsoveta.  
(Service stations)

SOV/144-59-12-3/21

**AUTHORS:** Tezonii, O.V., Candidate of Technical Sciences, Dotsent;  
Khlebnikov, S.D., Assistant; Sine'nikov, Ye.M., Doctor  
of Technical Sciences, Professor; Kolesnikov, E.V.,  
Assistant

**TITLE:** An Electrointegrator<sup>26</sup> for Solving Dirichlet and Neuman's  
Problems in a Strip

**PERIODICAL:** Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,  
1959, Nr 12, pp 18-25 (USSR)

**ABSTRACT:** Dirichlet-Neuman boundary value problems arise in the  
calculation of fields in linear media. Analytical and  
numerical methods of solution appear to be unsatisfactory  
in practice and simulation is therefore considered. The  
conventional approach has a number of disadvantages. For  
example, in Fig 1 a harmonic function is modelled by  
the potential  $V$  of the current field in a conducting  
sheet. The potential and its gradient are measured with  
the probes and potentiometer. The sheet is usually  
metallic, with an insufficiently high surface resistivity.  
A better method is that of Fig 2 in which the harmonic  
function is represented by current. The current itself  
is measured by a special magnetic loop-probe connected to

Card 1/4

SOV/144-59-12-3/21

An Electrointegrator for Solving Dirichlet and Neuman's Problems in  
a Strip

a ballistic galvanometer. The current gradient is measured on a galvanometer connected to a twin-probe, using the relationship between the space-derivative of current and the time-derivative of voltage. The new method has the following disadvantages: for each new problem a special model must be made by skilled effort; high accuracy demands careful setting of the boundary values and this requires precision rheostats; an estimate of the accuracy in any region is difficult. However, the use of conformal transformation enables these drawbacks to be avoided and a general-purpose simulator has been evolved. In 1956 a method of conformally representing a singly or doubly-connected region within an infinite strip was developed at the Novocherkasskiy Polytechnic Institute (Ref 1,2,3). The Dirichlet problem then becomes Poisson's integral (Ref 1, 2). The problem is still a difficult one but the authors' development, the Electrointegrator, allows a sufficiently accurate numerical solution. The electrointegrator is intended chiefly for finding, at the

Card 2/4

SOV/144-59-12-3/21

**An Electrointegrator for Solving Dirichlet and Neuman's Problems in a Strip**

strip boundary, the normal derivative of the harmonic function defined by the boundary values. The modelling principle is that described above. The block diagram of the electrointegrator is in Fig 3. The conducting sheet is a rectangle of manganin, 0.35 mm thick, measuring 135 x 1500 mm. Along one side of the strip current is fed in at 100 points from rheostats which can vary the current between 0.25 and 2.5 A. The ends of the strip are bonded to brass edges and fed from rheostats supplying up to 20 A. The currents are monitored on a multirange plug-in ammeter. The integrator currents are derived from a six-phase bank of selenium rectifiers type CB-100.4. The transformer primary is supplied from a group of CN-250 voltage stabilizers. The line voltage may be 220 or 380 V, the output level can be 8, 10 or 12 V (on open circuit). The exploring probe has two needles spaced by the same amount as the feeding points at the strip edge. Experiment shows that measurement made at least two strip-widths from the ends of the strip differ negligibly from the infinite-strip values. The ✓

Card 3/4

SOV/144-59-12-3/21

An Electrointegrator for Solving Dirichlet and Neuman's Problems in a Strip

arrangement is intended for calculations of the fields in unsaturated machines. In the appendix the problem is solved of finding the radial component of induction in the armature of a HN-300 machine (Fig 4). Fig 5 shows the distributions of scalar magnetic potential along the rectangle for both rotor  $\varphi_2$  and stator  $\varphi_1$ . Fig 6 is the distribution of induction along the edge of the armature, under a main pole, compared with experimental findings (shown dotted). There are 6 figures, 2 tables and 4 Soviet references.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut  
(Novocherkassk Polytechnic Institute)

SUBMITTED: July 26, 1959

Card 4/4

L-10787-65

EWI(1)/EPA(u)-2/EO(t)/EGG(b)-2

It-10/PI-4

IIP(c)

03

ACCESSION NR. AP4045822

S/0105/14/000/009/0030/0035

AUTHOR: Khlebnikov, S. D. (Engineer)

TITLE: Simulating ferromagnetic hysteresis characteristics on analog computers by means of ferroelectric capacitors

SOURCE: Elektrичество, no. 9, 1964, 30-35

TOPIC TAGS: varicond, ferroelectric capacitor, ferromagnetic hysteresis, ferromagnetic hysteresis simulation

**ABSTRACT:** Thanks to a certain geometrical similarity between ferromagnetic and ferroelectric hysteresis loops, it is possible to substitute ferroelectric capacitors (variconds) for ferromagnetic specimens in simulating ferromagnetic hysteresis loops. A varicond is connected to the input of the operational amplifier which has a linear capacitor in its feedback circuit. Typical variconds permit simulating various ferromagnetic characteristics with adequate accuracy;

L 10787-55 ACCESSION NR.	AP4045822		
<p>residual inductance and particular magnetization cycles are easily simulated. The method can be used for estimating the processes in a system that not only has ferromagnetic elements, but also electrical, mechanical, and other elements possessing hysteresis characteristics. The method is also applicable to simulating the magnetization characteristics of current transformers used for relay protective systems. The instability of parameters of the varicord loop is seen as the most important shortcoming of the method. Orig. art. has: 7 figures and 10 formulas.</p>			
<p>ASSOCIATION: Novocherkasskiy politekhnicheskiy institut im. S. Ordzhonikidze (Novocherkassk Polytechnic Institute)</p>			
SUBMITTED: 15 Jul 63		ENCL: 00	
SUB CODE: EC, EE		NO REF Sov: 006	
P-1000-272		OTHER: 000	

PLATONOV, Vasilii Vasil'yevich, aspirant; KLEBNIKOV, Stanislav Dmitriyevich,  
starshiy prepodavatel'

Study of saturable relay systems using an analog computer.  
Izv. vys. ucheb. zav.; elektronika. 6 no.4:435-440 '63.

(MIRA 16:7)

1. Kafedra elektricheskikh stantsiy, setey i sistem Novocherkasskogo  
politekhnicheskogo instituta (for Platonov). 2. Kafedra  
teoreticheskoy i obshchey elektrotehniki Novocherkasskogo  
politekhnicheskogo instituta (for Khlebnikov).  
(Electric relays) (Electric protection)

DROZDOV, Aleksandr Dmitriyevich, doktor tekhn.nauk, prof.; KHLEBNIKOV,  
Stanislav Dmitriyevich, starshiy prepodavatel'

Device for simulating a hysteresis loop in analog computers designed  
for calculating electrical networks. Izv. vys. ucheb. zav.;  
elektromekh. 6 no.5:641-642 '63. (MIRA 16:9)

1. Zaveduyushchiy kafedroy elektricheskikh stantsiy, setey i sistem,  
dekan elektromekhanicheskogo fakul'teta Novocherkasskogo  
politekhnicheskogo instituta (for Drozlov). 2. Kafedra  
teoreticheskoy i obshchey elektrotekhniki Novocherkasskogo  
politekhnicheskogo instituta (for Khlebnikov).  
(Electronic analog computers) (Electric networks)

XHLEBNIKOV, Stanislav Dmitriyevich, starshiy prepodavatel'

Simulation of transient processes of electric transformers using  
analog computers with natural reproduction of hysteresis. Izv.  
vys. ucheb. zav., elektromekh. 6 no.3:400-403 '63. (MIRA 16:5)

1. Kafedra teorecheskoy i obshchey elektrotekhniki Novocher-  
kasskogo politekhnicheskogo instituta.  
(Electric transformers) (Electronic analog computers)

KHLEBNIKOV, S.D., inzh.

Modeling of ferromagnetic hysteresis characteristics using  
electronic computer machine analogues and seignetoelectric  
condensers. Elektrichesvo no.9:30-35 S '64.

(MIRA 17:10)

1. Novocherkasskiy politekhnicheskiy institut imeni Ordzho-  
nikidze.

KHLEBNIKOV, Stanislav Dmitriyevich, starshiy prepodavatel'

Electronic simulation of a dynamic loop for devices with  
strongly saturated magnetic circuits. Izv. vys. ucheb. zav.  
elektromekh. 7 no.2:272-275 '64. (MIRA 17:4)

1. Kafedra teoreticheskoy i obshchey elektrikhniki Novo-  
cherkasskogo politekhnicheskogo instituta.

KHLEBNIKOV, Stanislav Dmitriyevich, starshiy prepodavatel'; ZASYPKIN,  
Aleksandr Semyonovich, aspirant

Modeling of single-phase bridge rectifiers with ideal valves  
using analog computers. Izv. vys. ucheb. zav.; elektromekh. 7  
no.4 444-455 '64 (MIRA 17:7)

1. Kafedra teoreticheskoy i obshchey elektrotekhniki Novocher-  
kasskogo politekhnicheskogo instituta (for Khlebnikov) 2. Ka-  
fedra elektricheskikh stantsiy, setey i sistem Novocherkassk-  
ogo politekhnicheskogo instituta (for Zasypkin).

KHLEBNIKOV, S. G.

32578. Protivofil'tratsionnye meropriyatiya na irrigatsionnykh kanalekh  
v strukturnykh svyaznykh gruntakh. Izvestiya Gruz. nauch-issled. in-ta  
gidrotekhniki i melioratsii, t. 1, 1949, s. 13-28.—Rezvome na gruz. yaZ.—  
Gigliogr: 20 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol, Moskva, 1949

KHLEBNIKOV, S. G.

USSR/Hydrology - Irrigation

Sep 51

"Counter Filtration Measures in Canals and Reservoirs," Prof G. M. Lomize, Prof. A. S. Voznesenskiy, S. G. Khlebnikov, Cand Tech Sci

"Gidrotekh i Meliorat" Vol III, No 9, pp 7-18

Filtration losses should be kept at min to raise the efficiency of irrigational systems. Results of investigations by Georgian Sci Res Inst of Hydraulic Eng and Soil Improvement were discussed in a session of Sci Tech Council and Tech Bur. Artificial binding of soils was adopted. Mech reinforcement, widely applied in road construction, was recommended also against filtration.

191T57

15-57-5-6915

Translation from: Referativnyy zhurnal, Geologiya, 1957, No 5,  
p 168 (USSR)

AUTHOR: Khlebnikov, S. G.

TITLE: The Results of Investigations on Artificial Gley  
Formation in Soils as an Anti-Seepage Measure in  
Canals and Reservoirs (Itogi issledovaniy iskusstven-  
nogo ogleyeniya gruntov kak protivofiltratsionnogo  
meropriyatiya na kanalakh i vodozemakh)

PERIODICAL: Tr. Gruz. n.-i. in-ta gidrotekhn. i melior., 1956,  
Nr 4 (17), pp 203-217

ABSTRACT: This paper describes experiments in artificial bio-  
chemical gley formation in soils to decrease permea-  
bility. The experiments were made both in laboratory  
and experimentally produced conditions in a periodi-  
cally used canal in Georgia and in a reservoir in the  
Kurskaya Oblast'. The essence of the artificial gley

Card 1/2

to want to apply the gley-forming process to reservoirs and canals  
that are active for long periods of time.  
Card 2/2

Ye. G. B.

14(1C)

SCV/99-59-6-2/13

AUTHOR: Khlebnikov, S.G., and Shanshiyev, A.K., Candidates of Technical Sciences, and Chaganava, V.A., Engineer

TITLE: Artificially-Curved, Prefabricated Reinforced-Concrete Troughs for Irrigation Chutes

PERIODICAL: Gidrotehnika i melioratsiya, 1959, Nr 6, pp 6-14, (USSR)

ABSTRACT: The article describes an entirely new method to cast troughs for irrigation chutes, which calls for casting artificially-curved, prefabricated reinforced-concrete troughs. Developed by A.K. Shanshiyev of the Laboratoriya industrial'nogo gidrotehnicheskogo zhelezobetona Tbilisskogo nauchno-issledovatel'skogo instituta sooruzheniy i gidroenergetiki imeni Vintera, or the TNISGEI, (Laboratory of Industrial Hydrotechnical Reinforced-Concrete of the Tbilisi Research Institute of Structures and Hydraulic Power Engineering imeni Vinter), the new method differs from the con-

Card 1/3

SOV/99-59-6-2/13

Artificially-Curved, Prefabricated Reinforced-Concrete Troughs  
for Irrigation Chutes

ventional one employing a double mold insofar as it has only one mold, the bottom plate. Covered by a concrete layer with laid-in reinforcements and lifted by a transverse beam at four points, the bottom plate bends at a certain angle and remains in this state until the concrete mass hardens. Prior to lifting, the concrete layer with reinforcements is subject to vibration by a flat-type vibrator of the I-7-type. The new trough specifications are: upper width - 65 cm; depth - 40 cm; wall thickness at bottom - 4.5 cm; wall thickness at trough rims - 3 cm; trough length - 4.1 m. The troughs thus made develop no cracks as there is no tensile stress left. The article cites the following names and organizations connected with the new trough development: Engineer A.A. Gabuniya, Gruz-NIIGiM, Samgorskaya orositel'naya sistema

Card 2/3

SOV/99-59-6-2/13

Artificially-Curved, Prefabricated Reinforced-Concrete Troughs  
for Irrigation Chutes

(Samgorskaya Irrigation System), Samgorvodstroy,  
Soyuzgiprovodkhoz, Teziokamskaya orositel'naya  
sistema (Teziokamskaya Irrigation System), Minge-  
chaurstroy, Gruzgidroenergostroy, and Cherepovets-  
metallurgstroy. There are 10 Soviet references,  
7 photographs, 2 sets of diagrams, and 2 diagrams.

ASSOCIATION: GruzNIIGiM

Card 3/3

KHLEBNIKOV, S.G., kand.tekhn.nauk; VASIL'YEV, V.V., inzh.

Machine for impact soil compaction in small irrigation canals and  
earth structures. Stroi. i dor. mash. 8 no.5:3-5 My '63.

(MIRA 16:5)

(Soil stabilization—Equipment and supplies)

44680-56 EWT(1)

ACC NR: AP6005364

SOURCE CODE: UR/0413/66/000/001/0110/0110

AUTHORS: Khlebnikov, S. P.; Shulepov, A. A.

43  
B

ORG: none

TITLE: Method for producing a regulated delay, Class 42, No. 177693 <sup>15</sup> Announced by Institute of Automation and Remote Control (Technical Cybernetics) (Institut avtomatiki i telemekhaniki (tekhnicheskoy kibernetiki))

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 110

TOPIC TAGS: delay mechanism, magnetic tape, magnetic recording

ABSTRACT: This Author Certificate presents a method for producing a regulated delay by varying the loop length between the record and the readout heads with the aid of a movable carriage for constant tape speed. To increase the maximum allowable time delays up to a double value with fixed length and direction of motion of the tape ring, for recording and readout of information the general-purpose magnetic heads are functionally switched during the motion of the movable carriage to a position corresponding to the maximum loop length between the heads for the given design. For readout of information recorded on this loop to the moment of switching, an additional head is connected temporarily to the input of the reproduction amplifier. This head is disconnected when it reads out a magnetic mark produced on the

Card 1/2

UDC: 681.142

L 44680-06

ACC NR:

AP6005364

carrier by a high frequency current pulse in the main heads preceding their switching. To block pulse noise caused when the spliced portion of the tape ring passes over the readout head gap, the tape is pressed to the working surface of this head by a flat spring. The spring is mounted on the pivot holder of a piezoc quartz sound pickup whose output signal is used to disconnect momentarily the electronic readout channel.

SUB CODE: 09/ SUBM DATE: 28Oct64

hs

Card 2/2

KHLEBNIKOV, S.P.

Stabilization of contact gaps in storing devices with ~~magnetic~~ drums.  
Priborostroenie no.3:7-8 Mr '61 (MIRA 14,3)  
(Magnetic memory—Calculating machines)

GUREVICH, S.L.; KHLEBNIKOV, S.P.

Centralized memorizing system for dispatching operations. Kozh.-  
obuv. prom. 6 no.4:14-17 Ap'64. (MIRA 17:5)

**KHLEBNIKOV, V.**

Labor productivity on collective and state farms. Vop. ekon.  
no.10:55-63 0 63. (MIRA 16:12)

KHLEBNIKOV, V.B.

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.;  
KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S.;  
starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUZHIN, A.S.; GARNETS,  
N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.; BYKOV, G.P.;  
NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHKIN, A.S.;  
PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZDESTVENSKIY, Yu.V.;  
SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.N.;  
KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.;  
MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KOREL', V.G.;  
DEBBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV,  
T.F., nauchnyy red.; YEROFEEV, N.A., nauchnyy red.; NEKRASOV, N.N.,  
nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-VERIN, S.S.,  
nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.;  
KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.;  
SIMDZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLLYREV, G.P.,  
red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHINA, I.G.,  
red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mestozhdeniya Altay-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology]  
(Continued on next card)

POSPESLOV, G.L.---(Continued) Card 2.

Geologija. Otvetstvennyi red. I.P. Bardin. Moskva, 1958. 330 p.

(MIRA 12:2)

1. Akademija nauk SSSR. Mezhdunodomstvennaya postoyannaya komissiya po  
shelzu. 2. Postoyannaya mezhdunodomstvennaya komissiya po shlezu  
Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Zapadno-  
Sibirskiy filial Akademii nauk SSSR (for Vakhrushev, Pospelov). 4. Zapadno-  
Sibirskoye geologicheskoye upravleniye (for Sakovich). 5. Krasnoyarskoye  
geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologo-  
rasvedochnyy trest Chernetravzvodka (for Prodanchuk). 7. Sibirskiy geo-  
fizicheskiy trest (for Pipar). 8. Vsesoyuznyy geologicheskiy nauchno-  
issledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for  
Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata  
(for Lukin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Si-  
birskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofizika (for  
Derbikov). (Altai Mountains--Iron ores) (Sayan Mountains--Iron ores)

*KHLEBNIKOV, V.B.*

BARDIN, I.P., akademik, otd.red.; STRELKILIN, S.G., akademik, red.; SHINYAKOV, L.D., akademik, red.; SHCHERBAKOV, D.I., akademik, red.; ANTIPOV, M.I., red.; BEIYANCHIKOV, K.F., red.; BRODSKIY, V.B., red.; YEROVETEV, B.B., red.; LIBERMAN, A.Ya., red.; MELESHKIN, S.M., red.; ORLOV, I.V., red.; SMIRNOV-VERIN, S.S., red.; RIKMAN, V.V., red.; SAMARIN, A.M., red.; SLEDZYUK, P.Ye., red.; SKOBNIKOV, M.L., red.; SOKOLOV, G.A., red.; FREY, V.I., red.; *KHLEBNIKOV, V.B.*, red.; SHAPIRO, I.S., red.; SHIHYAEV, P.A., red.; KUDASHEV, A.I., red.ind-va; KUX'MIN, I.P., tekhn.red.

[Magnetite ores of the Kustanay Province and their exploitation]  
Magnetitovye rudy Kustanaiskoi oblasti i puti ikh ispol'sovaniia.  
Otvetstvennyi red. I.P. Bardin. Moskva, Izd-vo Akad. nauk SSSR,  
1958. 489 p. (Zhelezorudnye mestorozhdeniya SSSR). (MIRA 12:2)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.  
(Kustanay Province--Magnetite)

AUTHOR: Khlebnikov, V.B., Deputy Chairman SOV/127-58-11-1/16

TITLE: A Stable Raw Materials' Base for Ferrous Metallurgy (Chernoy metallurgii - ustoychivyu syr'yevuyu bazu)

PERIODICAL: Gornyy zhurnal, 1958, Nr 11, pp 3 - 6 (USSR)

ABSTRACT: Although the Soviet mining industry is systematically increasing the output of iron and manganese ores, this development is not keeping pace with the development of ferrous metallurgy. A further increase in pig iron production will be possible only if the output of ores and their preparation for industrial use are sharply increased. The shortage of concentrated ores has obliged the industry to put poor ore or even pyrite cinders into the blast furnaces. Meanwhile the average iron content in the conventional (tovarnyye) ores each year becomes lower and, owing to the shortage of concentration plants, the extraction of poor ores has been abandoned. The author, who is the deputy chairman of the Gosplan of USSR, enumerates the past mistakes, which now jeopardise the whole metallurgical industry: delays in the building of new mines and concentration plants, shortages of modern means of transportation, antiquated tools, obsolete methods

Card 1/2

SJV/127-58-11-1/16

**A Stable Raw Materials' Base for Ferrous Metallurgy**

of concentration, etc. The author describes how the necessary development of the mining industry will be achieved in the years 1959 - 1965, and lists new iron and manganese ore mines which will be developed in different parts of the USSR. Special efforts will be made to increase the output of open-cast mines. Newly-built concentration plants will permit the exploitation of ores with a low iron content. Special ultra-modern equipment for the mining industry will also be produced. This production will be assured by 19 new or already existing machine-building plants. A special scientific research, planning and constructional institute of mining and concentration equipment (the 'IGORMASH') will be established in Sverdlovsk.

**ASSOCIATION:****Gosplan SSSR (The USSR plan)**

1. Iron ores--USSR
2. Manganese ores--USSR

Card 2/2

*KHLEBNIKOV V.B.*

BARDIN, I.P., akademik, otv.red.; ANTIPOV, M.I., nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; DODIN, A.L., nauchnyy red.; YEROFEEV, B.N., nauchnyy red.; KALUGIN, A.S., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; POSPELOV, G.L., nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red., red.toma; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; SOKOLOV, G.A., nauchnyy red., red.toma; STRUMILIN, S.O., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SHAPIRO, I.S., nauchnyy red.; KUDASHEVA, I.G., red.izd-va; POLENNOVA, T.P., tekhn.red.

[Iron ore deposits of the U.S.S.R.] Zhelezorudnye mestorozhdeniya SSSR. Otv.red.I.P.Bardin. Moskva. Vol.1. [Iron ore deposits of the Altai-Sayan mountainous region] Zhelezorudnye mestorozhdeniya Altai-Saianskoi gornoi oblasti. Book 2. [Description of the deposits] Opisanie mestorozhdenii. 1959. 601 p. (MIRA 13:3)

1. Akademiya nauk SSSR. Mezhdunodomstvennaya postoyannaya komissiya po zhelezru.

(Altai Mountains--Iron ores)  
(Sayan Mountains--Iron ores)

*KHLEBNIKOV V. B.*

BARDIN, I.P., akademik, otv.red.; ANTIPOV, M.I., nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; DOBIN, A.L., nauchnyy red.; YEROFSEYEV, B.N., nauchnyy red.; KALUGIN, A.S., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; POSPEKHOV, G.L., nauchnyy red.; SKOBNIKOV, M., nauchnyy red.; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.; *KHLEBNIKOV, V.B.*, nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SHAPIRO, I.S., nauchnyy red.; SLEDZHYUK, P.Ye., ed. toma; SOKOLOV, G.A., red.roma; KUDASHEVA, I.O., red.izd-va; POZHOVA, T.P., tekhn.red.

[Iron ore deposits in the Altai-Sayan mountainous region] Zhelezo-rudnye mestorozhdeniya Altai-Saianskoi gornoi oblasti. Otvetstvennyi red. I.P. Bardin. Moskva. Vol.1. Book 2. [Description of the deposits] Opisanie mestorozhdenii. 1959. 601 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Mezhduredomstvennaya postoyannaya komissiya po zhelezu. (Altai Mountains--Iron ores)(Sayan Mountains--Iron ores)

KHLEBNIKOV, Viktor Borisovich; OSADA, P.A., red.; PONOMAREVA, A.A.,  
tekhn.red.

[Soviet ferrous metallurgy from 1959 through 1965] Sovetskaja  
chernaja metallurgija v 1959-1965 gg. Moskva, Gosplanizdat,  
1960. 242 p. (MIREA 14:3)

(Iron industry) (Steel industry)

KHLEBNIKOV, V.B.

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGALEV, I.V.; KAVUB, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STRIELTS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKEL'SHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B.. ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAIEV, K.I.. akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROPEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STRETS, N.A., nauchnyy red.; BANKVITSEB, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniya TSentral'nogo Kazakhstana i puti ikh ispol'zovaniya. Otvetstvennyi red. I.P.Bardin. (MIRA 13:4) Moskva, 1960. 556 p.

1. Akademiya nauk SSSR. Mezhdunovodstvennaya postoyannaya komissiya po zhelesu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets, (Continued on next card)

BOLDYREV, G.P.---(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatakiy).
4. Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedor SSSR (for Verk, Dyugayev, Kavun, Kurenko, Urbekov).
5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopaemykh (Mikhanobr) (for Patkovskiy).
6. Gosudarstvennyy institut projektirovaniya metallurg. zavodov (Gipromez) (for Boleslavskaya, Indenbom, Finkel'shtayn, Neveznya, Fedoseyev, Karpi-lovskiy).
7. Mezhdunovodstvennaya postoyannaya komissiya po zhelezu AN SSSR (for Shapiro, Zernova, Kalganov).
8. Gosplan SSSR (for Lepin).

(Kazakhstan--Iron ores)

KHLEBNIKOV, V.B.

Mechanization and automation in enterprises of ferrous  
metallurgy. Mekh.i avtom.proizv. 15 no.10:4-9 0 '61.  
(MIRA 14:10)

1. Zamestitei' predsedatelya Gosplana SSSR.  
(Automation) (Iron industry)

KOROBOV, P.I.; KRIBENIKOV, V.R.; BORISOV, A.F.; SKOCHINSKIY, A.A.; SHEVYAKOV, L.D.; KAL'PIKOV, N.V.; NELESIKIM, S.M.; MOSKAL'KOV, Ye.F.; POKROVSKIY, N.A.; KAPLUNOV, R.P.; BOGOLYUBOV, B.P.; ARUTYUNOV, N.B.; BOYKO, V.Ye.; BRINZA, N.M.; FEDOROV, V.F.; AGOSIKOV, M.I.; BAKONENKOV, A.V.; VORONIN, L.N.; IPATOV, P.M.; NAZAROV, P.P.; SLUTSKAYA, O.M.; CHERNENKO, N.B.; RABINOVICH, V.I.; SHKLOVSKIY, V.N.; TROITSKIY, A.V.; GOL'DIN, Ya.A.; DZHAPARIDZE, Yo.A.; ZHURAVLEV, S.P.; KUZNETSOV, K.K.; KALEVICH, N.A.; MARINENKO, M.P.; MANTYNOV, G.P.; NATAPOV, P.F.; PENTSEV, M.A.; ROSSMIT, A.F.; RYASNOY, A.A.; SOSEDOV, O.O.; VIL'YADOV, V.S.; ZUBAREV, S.N.; SHAFARENKO, I.P.

Nikolai Nikolaevich Patrikeev; an obituary. Gor.zhur. no.6:76 Je '60. (MIRA 14:2)

(Patrikeev, Nikolai Nikolaevich, 1890-1960)

KELEBNIKOV, V.

On the further strengthening of the collective-farm economy.

Voprosy. no.7/49-57 Jl '62.

(MIRA 15:7)

(Collective farms--Costs)

GERASIMOV, V.G.; KHLEBNIKOV, V.G.; SHKARLET, Yu.M.

Device for contactless measurement of the diameter of a copper  
wire. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 4 no.8:41-50  
'62. (MIRA 16:6)

(Electric wire--Measurement)

LAZUKOV, G.I.; KHLEBNIKOV, V.K.

Horizon of Taz moraines in the Ob' Valley. Geol. i geofiz. no.4:  
74-87 '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet i Zapadno-Sibirskaya  
ekspeditsiya Vsesoyuznogo nauchno-issledovatel'skogo geologicheskogo  
instituta, Leningrad.

(Ob' Valley—Moraines)

KHLEBNIKOV, V. N.

AID P - 1475

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 26/36

Author : Khlebnikov, V. N., Kand. of Tech. Sci.

Title : Single-phase electrification of a Belgian Congo railway sector

Periodical : Elektrichestvo, 2, 73, 75, F 1955

Abstract : The author summarizes a series of articles in British and German publications concerning the electrification at 50 cycles of a sector of the Bas Congo-Katanga Railway. One drawing, 5 references (1952-1954)

Institution: None

Submitted : No date

TEREJKOV, A.A.; kand. tekhn. nauk; Khlebnikov, V.N., kand. tekhn. nauk;  
CHERNOUSOV, L.A., inzh.

Electrification of French railroad sections using single-phase commercial current. Zhel. dor. transp. 37 no.8:76-81 Ag '55.  
(NIRA 12:8)

1. Institut kompleksnykh transportnykh problem AN SSSR.  
(France--Railroads--Electrification)

KHLEBNIKOV, V.N., kandidat tekhnicheskikh nauk; CHERNOUSOV, L.A., inzhener.

Motorcar rolling stock using a.c. industrial current. Zhel.dor.  
transp. 39 no. 4:77-82 Ap '57. (MLRA 10:5)  
(Railroad motorcars)

PETROV, S.A.; KHLIKHNIKOV, V.N.

Monograph method of calculating the speed of a mercury rectifier type electric locomotive and the phase of the principal harmonic of its primary current. Vop.elek.zhel.dor, no.1:169-193 '59.

(MIRA 12:8)

(Electric locomotives)

KHLEBNIKOV, V.N.

Estimate of the directing forces during the motion of multi-bogie coupled locomotives on curving portions of the railway.  
Vop.elek.shel.dor. no.1:202-219 '59. (MIRA 12:8)  
(Electric railroads--Rails)

KHLEBNIKOV, Vladimir Nikolayevich, kand.tekhn.nauk; ISLANKINA, T.P.,  
red.; SAVCHENKO, Ye.V., tekhn.red.

[Electric locomotives] Elektrovozy. Moskva, Izd-vo "Znanie,"  
1960. 39 p. (Vsesciuznoe obshchestvo po rasprostraneniu poli-  
ticheskikh i nauchnykh znanii. Ser.4, no.33).

(MIRA 14-1)

(Electric locomotives)

KHLEBNIKOV, V.N.

Effect of voltage changes in the contact network on the operation  
of d.c. electric locomotives. Blok. zhel dor. no. 2:154-169 '60.

(MIRA 14:2)

(Electric locomotives) (Electric railroads--Current supply)

KLEBNIKOV, V.N.; ELLANSKIY, E.A.

Problem of determining the work indices of electric locomotives with mercury rectifiers by means of engineering and efficiency calculations. Elek. zhurnal no. 2:214-232 '60. (IMM 14:2)  
(Electric locomotives)

NIKOLAYEV, Ivan Ivanovich; SLITIKOV, P.A., prof., retsenzent;  
LISOVENKO, S.I., dots., retsenzent; KHLEBNIKOV, V.N., kand.  
tekhn. nauk, red.; USENKO, L.A., tekhn. red.

[Locomotive dynamics] Dinamika lokomotivov. Moskva, Trans-  
zhelodorizdat, 1962. 318 p. (MIRA 16:1)

1. Chlen-korrespondent Akademii nauk SSSR (for Nikolayev).  
(Locomotives--Dynamics)

KHLEBNIKOV, V. N.

Single-phase a. c. locomotives. Biul. tekhn.-ekon. inform. Gos.  
nauch.-issl. inst. nauch. i tekhn. inform. no.12:81-85 '62.  
(MIRA 16:1)

(France—Electric locomotives)

AVATKOV, Aleksandr Stepanovich; KHLEBNIKOV, V.N., kand. tekhn.  
nauk, retsentsent; ZUBLEVSKIY, S.M., inzh., red.;  
MEDVEDEVA, M.A., tekhn. red.

[A.C. locomotives and motor coaches] Elektrovozy i motor-  
kiye vagony peremennogo toka. Moskva, Transzheldorizdat,  
1963. 237 p.

(MIRA 17:1)

KHLEBNIKOV, V.N.; TUSHKANOV, B.A., inzh., retsenzent; YAKOVLEV,  
D.V., inzh., red.

[Electric locomotive designs; mechanical section] Kon-  
struktsii elektrovozov; mekhanicheskaiia chast'. Mo-  
skva, Mashinostroenie, 1964. 302 p. (MIRA 17:12)

MINOV, Dmitriy Konstantinovich, prof. doktor tekhn. nauk;  
FAMINSKIY, G.V., kand. tekhn. nauk, retsenzent;  
KHLEBNIKOV, V.N., kand. tekhn. nauk, red.

[Increasing the tractional characteristics of electric  
locomotives and diesel locomotives with electrical transmis-  
sion systems] Povyshenie tiagovykh svoistv elektravozov i  
teplovozov s elektricheskoi pereodachei. Moskva, Transport,  
1965. 266 p. (MIRA 18:8)

ZABRODIN, Boris Valer'yevich, inzh; KHLEBNIKOV, V.N., red.

[Electric rolling stock on French railroads] Elektropod-  
vizhnoi sostav frantsuzskikh zheleznykh dorog. Moskva,  
Transport, 1965. 273 p. (MIRA 18:2)

*Khlebnikov, V.P.*

137-1957-12-23637

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 113 (USSR)

AUTHORS: Protasov, N. F., Khlebnikov, V. P.

TITLE: Results of Experimental Rolling of Nr 36 and 55 Beams of the Light Light-weight Type (Opyt osvoyeniya prokatki balok Nr 36 i 55 oblegchennogo tipa)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profizdat, 1956, pp 156-159

ABSTRACT: The experience from employing a universal stand for rolling (R) a Nr 40-K beam (B) was taken into consideration when the rolling of a thin-walled B Nr 36 was planned. The universal stand could not be employed because the non-uniform local reduction of the flanges produced by it impaired the quality of the structural profile. The test results with the first calibration for a light-weight Nr 36 B were not satisfactory because the small incline of the inner flange surface caused the open flange calibers to wear out rapidly, and after the rolling of about 20 t the required profile could no longer be obtained. Increasing the incline of the inner surface from 2 to 10 percent, as well as changing the profile dimensions somewhat, produced satisfactory results, and

Card 1/2

137-1957-12-23637

**Results of Experimental Rolling of Nr 36 and 55 Beams (cont.)**

the durability of the rolls returned to normal. It is assumed, on the strength of the experimental rolling of the Nr 30 B with the employment of slanted grooves, that a light-weight Nr 36 B may be rolled through inclined grooves. Experimental rolling of a light-weight Nr 55 B had proved that it can be rolled in large quantities. During the rolling of a light-weight B the consumption of energy increased by 25-30 percent, along with increased consumption of metal. The amount of the light-weight B's which were rolled is not sufficient to justify a final conclusion regarding the practicability of mass-producing light-weight profiles. For the preceding report see RZhMet. 1956, Nr 10, 10148.

P.G.

1. Beams-Rolling-Test methods    2. Beams-Rolling-Test results

Card 2/2

PROTASOV, N.F., glavnnyy prekatchik; Khlebnikov, I.P., starshiy kalibrevshchik.

Mastering the production of lightweight I-beams. Metallurg no.4:18-21  
(MLRA 9:9)  
Ap '56.

1.Zavod "Azerstal'" (for Khlebnikov).  
(Girders) (Belling (Metalwerk))

*• KHLEBNIKOV, V. P.*

137-58-1-652

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 101 (USSR)

AUTHOR: Khlebnikov, V. P.

TITLE: Efficient Methods of Grooving Complex Shaped Sections (Rational'nyye metody kalibrovki slozhnykh fasonnykh profiley)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1956, Vol 10, pp381-386

ABSTRACT: Experimental rolling of lightened beams has shown that the method of grooving developed at the Azovstal' Works makes it possible to roll beams with a 10 percent slope of their inside edges and considerable flange width (160 mm in the case of a Nr 36 beam), without the use of a universal finishing stand. Further streamlining of the grooving of passes for beams at this plant includes the introduction of canted rolling R: experimental R of Nr 30 beams in canted-grooved passes has given good results. The experience acquired will be employed in mastering R in canted-grooved passes for light-weight beams. The manufacture of channels by means of the evolute (beam) type of grooving, as well as the manufacture of grooved sections ShK-1 and ShI I-1, the grooving of which had been comp-

Card 1/2

137-58-1-652

**Efficient Methods of Grooving Complex Shaped Sections**

llicated by the need to produce long and thin flanges in the reducing stand with further R in the tongue-and-groove passes of the finishing line, has been mastered. See RzhMet, 1957, Nr 12, 22805.

**Rolling mills--Shaping methods**

V.D.

Card 2/2

*Khlebnikov, V.P.*

133-12-11/26

AUTHORS: Khlebnikov, V.P., Fradin, M.D., and Chekhovskiy, P.A.

TITLE: On the Problem of Rational Design of Roll Passes for Rails  
(K voprosu o ratsional'noy kalibrovke rel'sov)

PERIODICAL: Stal', 1957, No.12, pp. 1103 - 1107 (USSR).

ABSTRACT: This is a contribution to the discussion of the paper by P.A. Aleksandrov and I.S. Trishevskiy (Stal', 1955, No.12). The present authors consider that a rigid approach to the use of high semis for rolling rails as well as of a high and sharp crown in the first trapezoidal pass is not beneficial for the quality of rails produced. Improvements in the quality of rails obtained on changes in the design of roll passes on a mill 900 for rails P-50 used in 1954, 1955 and 1956 (Figs. 2, 3 and 4, respectively) in which the shape of roll passes has been modified and the number of trapezoidal passes steadily decreased to two, indicate the possibility of adoption of not more than 3 trapezoidal passes for an optimum calibration. There are 2 tables, 4 figures and 4 references, 3 of which are Slavic.

ASSOCIATION: Azovstal' Works (Zavod "Azovstal'")

AVAILABLE: Library of Congress  
Card 1/1

PRADIN, M.D., inzh.; CHIKHOVSKIY, P.A., inzh.; KHLEBNIKOV, V.P., inzh.

Review of B.M. Shum's book "Rail and heavy-section mills," Stal'  
17 no.12:1112-1113 D '57. (MIRA 11:1)

1. Zavod "Anovstal'."

(Rolling mills)  
(Shum, B.M.)

SOV/130-58-10-9/18

AUTHORS: Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I.,  
Gonchar, V.V., Stefanov, V.Ye and Boldyrev, L.I.

TITLE: Improving Accessoriss on the Reducing Mill of a Heavy-  
Section Mill (Usovershenstvovaniye armatury obzhimnogo  
stana krupnosortnogo tsekha).

PERIODICAL: Metallurg, 1958, Nr.10, pp.25-29 (USSR)

ABSTRACT: It was found that when rolling low-number girders, especially Nr.20 in the reducing stand of a rail-structural mill the metal often displaced the guides, leading to stoppages. The authors give details of guide construction and attachment (Fig.1) and also of special devices provided before each pass (Fig.2) to support the beam from below. This is advantageous for rolling large girders (Nr.30-55) but unreliable for smaller (Nr.18-16) sizes. For rolling these latter when the closed passes are in the bottom roll two variants of guide arrangements have been proposed. In the first special movable vertical supports are provided for the guides, fixed on trapezoidal projections. In the

Card 1/2

SOV/130-58-10-9/18  
Improving Accessories on the Reducing Mill of a Heavy-Section Mill.

second a trapezoidal-section bar is fixed to the housing (similar to the guide bars on the finishing line) (Fig.4) which supports one end of the specially shaped guide, the other being held in the pass with the aid of a load. The authors favour the second variant and mention its applicabilities. Its adoption has enabled the load on the finishing line to be reduced by 20-25%. The new roll-pass designs used since March 1957 have led to better roll life, higher productivity and other improvements. The new accessories are especially useful for thin-walled sections, and during the year for which they have been in use no cases of guide displacement have occurred. There are 4 figures.

ASSOCIATION: Zavod "Azovstal'" ("Azovstal'" works).

Card 2/2

SOV/130-58-12-12/21

**AUTHORS:** Protasov, N.F., ~~Khlebnikov, V.P.~~, Sikorskiy, A.I.,  
Gonchar, V.V., Boldyrev, L.I. and Stefanov, V.Ye.

**TITLE:** Experience of the Adoption of Profiles for Mine Supports  
(Opyt osvoyeniya profiley dlya shakhtnogo krepleniya)

**PERIODICAL:** Metallurg, 1958, <sup>3</sup>Nr 12, pp 27 - 29 (USSR)

**ABSTRACT:** The "Azovstal'" works is one of the main suppliers of the more important sections for mine construction and operation. The authors illustrate (Fig 1) sections for props types 18A-18B and 28A-28B and show how the first two fit each other (Fig 2). These sections are rolled from 230 x 285 and 245 x 280 mm blooms in four stands arranged in two lines and the authors outline the pass design and deformations at the various stages. They deal with the production of inclined props to GOST-5157-53. The authors

Card 1/2

SOV/130-58-12-12/21

Experience of the Adoption of Profiles for Mine Supports

state that the pass designs for pit props developed at the works have improved quality as well as increasing production.

There are 4 figures

ASSOCIATION: "Azovstal'" works

Card 2/2

KHL &amp; B.N. Kov, V.P.

PLATE I BOOK EXPLOITATION

SUW/3226

Nefravosovskaya nauchno-tehnicheskaya konferentsiya, na temu  
"Sorvannye dostizheniya prirodnoi i tekhnicheskoi  
prudy", (Proceedings of the Intercollegiate Scientific and Technical  
Conferece on Recent Achievements in the Rolling Industry)  
Leningrad, 1958. 251 p. 1,000 copies printed.

Sponsoring Agencies: Leningradskiy politekhnicheskii institut im.  
M.I. Kalinina, Nauchno-tekhnicheskoye obshchestvo nauchno-tekhnicheskoy obshch-  
estvo, Leningradskoye obshchestvo, and Nauchno-tadzhikskoye obshch-  
estvo metallurgov, Leningradskoye obshchestvo.

Rep. Ed.: V.S. Smirnov, Doctor of Technical Sciences, Professor;  
M.I. N.M. Pavlov.

Purpose: These proceedings of the conference are intended for  
specialists in the rolling industry.

Coverage: The articles of this collection cover various theoretical  
and practical problems of rolling, such as: structure, speed,  
affidancy of rolls, determination of deformation, forces required,  
pax design, optimum conditions for rolling, experiences of  
various plants, modernization of equipment, aluminum-clad steel,  
and rolling of nonferrous metals. No personalities are mentioned.  
References appear after each article.

Lebedeva, O.I., and N.D. Durnov, [Savod "Krasnyy Oktiabr"] Some Problems of  
Production and Equipment in Longitudinal Periodic Mill Rolling 103  
Chelyshev, M.I., [Sibirskiy metallurgicheskiy institut (Siberian  
Metallurgical Institute), Stalinsk] Optimum Conditions of Deform-  
ation in Rolling 109

Grechkin, V.P. [Institut sverdlykh metallurgicheskikh rasseyaniy (Institute  
of Ferrous Metallurgy), Al'tau SSR] Quality of Rolling With  
Great Drafts 122

Nastava, S.P. [Kazvod "Krasnyy Oktiabr"] "Plant 'Krasnyy Oktiabr'" 125  
Stalingrad] New Type of Rolled Stock for the Tractor Industry

Borodulinov, M.I. [Magnitogorskii gornometallurgicheskii  
institut im. G.I. Nosova] New Technique of Magnitogorsk Mining and Metallurgy  
Institute 126  
Kosarev, G.I. [Krasnoyarsk Copper-Clad Steel Wire Rod  
Method of Producing Copper-Clad Steel Wire Rod 131

Popovskiy, N.M. [Voronezhskiy metallurgicheskii institut  
(Voronezh Metallurgical Institute)] Intensifying Regimes of  
Drafts in Rolling According to Practical Conditions 135

Khlebikov, V.P. [Zavod "Azovstal'" (Plant "Azovstal'")]  
Zavod "Azovstal'" Rolling of Plates at the "Azovstal'" Plant 141  
Lyubovitsch, B.M. [Tsimborskoye metallurgicheskoye zavod im.  
I.V. Stalina (Tsimborsk Metallurgical Plant)] Rolling and Roll Pass Design of Light  
T-shapes for Framework of Industrial Buildings 145

Baranov, A.M., A.M. Matishov, and N.D. Marin, [Kirovskiy zavod  
(Kirov Plant), Leningrad] Rolling Spring Leaf and Spring Steel  
at Kirov Plant 151

Yatskarev, V.K. [Zakavkazskiy metallurgicheskoye zavod im.  
I.V. Stalina (Transcaucasian Metallurgical Plant im. I.V. Stalin)]  
Application of Reverters in Rolling Steel Angles 155

Korshunov, Ye.A. [Ural'skiy politekhnicheskii institut (Ural  
Polytechnical Institute)] Effect of a Manipulator on Blooming  
Productivity 158

Orlov, A.M. [Zavod "Azovstal'" (Plant "Azovstal'")], Tula  
Rolling Double-length Blooms in the 650 Blooming Mill at the  
Large Section Rolling Shop of the "Azovstal'" Plant 162

Rilenev, F.Z. [Leningradskiy zavod po obrabotke tsvetnykh  
metallov (Leningrad Plant for Treatment of Nonferrous Metals)]  
Modernizing the Equipment of Coil-rolling Shops 163  
Chernyak, S.M. [Leningradskiy zavod po obrabotke tsvetnykh  
metallov (Leningrad Plant for Treatment of Nonferrous Metals)]  
Improving Production of Aluminum-clad Iron 176

Osipovich, D.Ya. [Leningradskiy litoprikolat'znyy zavod (Leningrad  
Sheet-rolling Mill)] Combined Method of Producing Roofing Sheets 182

SPITSYN, Vikt.I., akademik; D<sup>o</sup>YACHKOVA, R.A.; KHLENNIKOV, V.P.

State of protactinium in nitric acid solutions. Dokl. AN  
SSSR 157 no.1:135-138 Jl '64 (MIRA 17:8)

1. Institut fizicheskoy khimii AN SSSR.

L 60399-65 TBT(+)BTP(+)BTP(+) TBP(+) m/s

ACCESSION NR APE016007

UR/0186/65/007/0001-7

AL'IA. V. Khrenova, R. A., Khrenovskiy, V. P.

TITLE: Tributyl phosphate extraction of protactinium. Part 1. Nonextractable forms of protactinium.

SOURCE: Radiokhimiya, v. 7, no. 2, 1965, 257-261

TOPIC TAGS: protactinium, tributyl phosphate, polymeric protactinium, radioisotope extraction

ABSTRACT: The article reports on the kinetics of extraction of protactinium from nitric acid solutions by tributyl phosphate. The results of a determination of Pa present in a nonextractable form in HNO<sub>3</sub> solutions. In addition, in order to determine the conditions under which polymeric forms of Pa exist, the distribution ratio was studied as a function of the Pa concentration. It was found that when fresh Pa solutions were used, the equilibrium was established in a few minutes, and the distribution ratios for the extraction and reextraction were the same. In the case of aged solutions, the extraction equilibrium was not reached after 100 hr of stirring because of the presence of nonextractable forms of Pa; up to 46% Pa can be present in such form even

Card 1/2

1. APPROVAL

ALL INFORMATION CONTAINED

IN THIS REPORT IS UNCLASSIFIED  
EXCEPT AS NOTED  
DATE 10-10-2001 BY 60102  
EXCEPT AS NOTED

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED

DATE 10-10-2001 BY 60102

SUBMITTED: USAPTOE ENCL: 00 SUB CODE: IC

NO REF ID: 000

ATTACH: 000

L 60100-5, DFT(b)/DFT(t)/DFT(b) TJP(c) JD/JG

ACCESSION NR: AP6018098

UR/0180/65/007/03/0332/0265  
542.61: 840.798: 54-145.4

14

B

AUTHOR: D'yachkova, N. A., Spitayr, V. I., Khlebnikov, V. P.

TITLE: Tributyl phosphate extraction of protactinium. Part. 2. Determination of the solvation number of the extracted protactinium complex

SOURCE: Radiokhimiya, v. 7, no. 3, 1965, 262-265

TOPIC TAGS: protactinium, tributyl phosphate, polymeric protactinium, radioisotope extraction, solvation

**ABSTRACT:** The distribution ratio of protactinium was studied as a function of the tributyl phosphate (TBP) concentration in extraction from nitric and perchloric acids. The ionic strength of the aqueous phase was kept constant. The initial and equilibrium concentrations of  $\text{HNO}_3$  and TBP were calculated by taking into account their interaction, which causes the formation of the complexes  $\text{HNO}_3 \cdot \text{TBP}$  and  $(\text{HNO}_3)_2 \cdot \text{TBP}$  in the organic phase. The slope of the straight line representing the log of the distribution ratio versus the log of the concentration of free TBP for extraction from 1 to 5 M  $\text{HNO}_3$  was found to be 3.18. It is concluded that in the concentration range under consideration, protactinium I

Card 1/2

0-50493-65	REVIEWED	APR 17 2001	EX-1
PROTRACTIUM	EXTRACTION	EXTRACTION	EXTRACTION
<p>extracted with the formation of a dissolvate in the organic phase. In the case of extraction from perchloric acid, a whole series of complexes of the type <math>m\text{HClO}_4 \cdot n\text{TBP}</math> are formed whose equilibrium constants (except that of <math>\text{HClO}_4 \cdot 4\text{TBP}</math>) are not known. The interaction of <math>\text{HClO}_4</math> and TBP could not be accurately determined. The number of TBP molecules attached to protactinium in extraction from 1-5 M <math>\text{HClO}_4</math> is close to 3. Orig. art. has 2 figures and 2 tables.</p>			
ASSOCIATION: None	ENOL: 00	SUB CODE: 1C	
SUBMITTED: 03 Apr 04	OTHER: 003		
NO REF SOV: 006			
<p>dm Card 2/2</p>			

L 39086-66

EWT(m)/EWP(j)/EWP(t)/ETI

IJP(c) RW/JD/JG

ACC NR: AP6022871

SOURCE CODE: UR/0186/66/008/002/0125/0131

AUTHOR: Khlebnikov, V. P.; D'yachkova, R. A.; Spitsyn, V. I.

ORG: none

TITLE: Extraction of protactinium with tributyl phosphate. Part 3: Determination of the composition and stability constants of nitrate complexes of protactinium

SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 125-131

TOPIC TAGS: protactinium, nitrate, extraction, distribution coefficient, stability constant, solvent extraction

ABSTRACT: In order to determine the composition and stability constants of nitrate complexes of protactinium, the dependence of the distribution coefficient was studied as a function of hydrogen ion and nitrate ion concentration during extraction of protactinium with tributyl phosphate. At a constant ionic strength of the aqueous phase  $\mu = 5$  and 6 in the range of high acid concentrations (3-6 M), the distribution coefficient was shown to be proportional to the square of the hydrogen ion concentration. At the constant value  $\mu = 5$ , the distribution coefficient increases with the  $\text{NO}_3^-$  concentration. A mechanism is proposed for the reaction of extraction of protactinium with tributyl phosphate. The stability constants of the nitrate complexes  $\text{Pa}(\text{OH})_2(\text{NO}_3)_2^{2+}$ ,  $\text{Pa}(\text{OH})_2(\text{NO}_3)_2^+$ ,  $\text{Pa}(\text{OH})_2(\text{NO}_3)_3^0$ , and  $\text{Pa}(\text{OH})_2(\text{NO}_3)_4^-$  were calculated to

UDC: 542.61:546.796:54-145.4

Card 1/2

L 39086-66

ACC NR: AP6022871

be respectively  $\beta_1 = 17$ ,  $\beta_2 = 1.3 \times 10^2$ ,  $\beta_3 = 5.4 \times 10^2$ , and  $\beta_4 = 1.4 \times 10^3$ . The equilibrium constant for the reaction of extraction of protactinium with tributyl phosphate was found to be  $K = 5.4 \times 10^3$ . Orig. art. has: 4 figures, 3 tables, and 12 formulas.

SUB CODE: 07/ SUEM DATE: 05Nov65/ ORIG REF: 012/ OTH REF: 009

Card 2/2 MLP

KHLEBNIKOV, V. V.

KHLEBNIKOV, V. V. "The problem of the arterial blood supply to the skin of the front and side walls of the chest and stomach", Trudy Sret. goz. med. in-ta, Vol. VI, 1947, p.13-22.

So: U-4631, 16 Sept 53, (Lekopis 'Zhurnal' nykt Statoy, No. "4, 1949).

**KHLEBNIKOV, V.V., dotsent.**

Direction of the central roentgen ray in profile photography of the Turkish saddle. Vest. rent. i rad. no. 5:80-82 S-0 '53. (MLRA 751)

1. Iz kafedry normal'noy anatomi (zavednyushchiy - professor V.I.Bik) Saratovskogo meditsinskogo instituta (direktor - professor I.M.Popov'-yan).

(Radiography) (Skull)

*KHLEBNIKOV, V.V.*

USSR/Human and Animal Morphology. Circulatory System.

S-2

Abs Jour: Referat Zh.-Biol., No 1, 10 January 1958, 2850.

Author : Khlebnikov, V. V.

Inst :

Title : Variations in the Esophageal Arteries of Fetuses during the Last Months of Intrauterine Life.

Orig Pub: Tr. kafedry norm. anatomi, Saratovsk. med. in-t, 1955, vyp. 1, 196-207.

**Abstract:** It was established by studying 50 esophagus preparations removed from fetuses during the last months of intrauterine life, by means of anatomical methods and roentgenography, that there were the following permanent sources of blood supply to the esophagus: the inferior thyroid artery to the cervical portion; 2-6 branches of the abdominal aorta and, more frequently, 3 bronchial arteries to the thoracic portion; and the left gastric

Card : 1/2

-8-

USSR/Human and Animal Morphology. Circulatory System.

S-2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722110001-7"

Abs Jour: Referat Zh.-Biol., No 1, 10 January 1958, 2850.

artery to the abdominal portion of the esophagus. In addition the cervical portion of the esophagus was inconstantly supplied by the thyrocervical and costocervical trunks, ascending cervical, subclavian, vertebral, left common carotid arteries, and the arch of aorta; the thoracic portion by the intercostal and subclavian arteries; and the abdominal portion by the lower artery to the diaphragm. Those arteries supplying the cervical portion commonly divide, in the wall of the esophagus, into ascending and descending branches whose arborizations anastomose forming a coarse, looped network. In the thoracic portion of the esophagus, numerous longitudinally directed arteries of the third order formed a finer looped network.

Card : 2/2

-9-

KHLEBNIKOV, Yu.

Work organization and the quality of ship repair. Rech. transp.  
24 no.3:31 '65. (MIRA 18:5)

1. Direktor Kuybyshevskogo sudoremontnogo zavoda.

KHLEBNIKOV, Yu.P.; KIKHTENKO, V.A.

New cyclone-type air filter with automatic dust removal. Trakt. i  
sel'khozmash. 31 no.12:3-4 D '61. (MIRA 15:1)

1. Gosudarstvennoye spetsial'noye byuro po dvigateleyam.  
(Air filters)

KIKHTENKO, V.A.; KHLEBNIKOV, Yu.P.; YEGOROV, I.M., kand. tekhn. nauk, retsenzent; DVOROVENKO, G.P., kand. tekhn. nauk, red.; YEGORKINA, L.I., red. izd-va; EL'KIND, V.D., tekhn. red.

[Cyclone air cleaners for tractors] Traktornye tsiklon-nye vozdukhochistiteli; konstruktsiya, raschet, obsluzhivanie i ispytanie. Moskva, Mashgiz, 1963. 150 p. (MIRA 16:7)

(Tractors--Equipment and supplies) (Air filters)

SOV/25-59-1-7/51

AUTHOR: Lebedyan'skiy, L.S., Chief Designer of the Plant, Nayman, A.M. and Khlebnikov, Yu.V., Engineers of the Plant

TITLE: Gas Turbines in Locomotives (Gazovaya turbina na lokomotive)

PERIODICAL: Nauka i zhizn', 1959, Nr 1, pp 12-13 (USSR)

ABSTRACT: The Kolomna Locomotive Building Plant imeni V.V. Kuybyshev is developing the first Soviet gas turbine locomotive with a capacity of 3,000 hp in one unit in which a single-shaft gas turbine will operate with electric transmission. The author gives a short description of this locomotive. There are 2 photographs.

ASSOCIATION: Kolomenskiy teplovozostroitel'nyy zavod imeni V.V. Kuybysheva (Kolomna Locomotive Building Plant imeni V.V. Kuybyshev)

Card 1/1

MACHNEV, B.N., inzh. (Kolomna); NAYMAN, A.M., inzh. (Kolomna); NESTEROV, E.I.,  
inzh. (Kolomna); SHAKHRAY, D.I., inzh. (Kolomna); KHLEBNIKOV, Yu.V.,  
inzh. (Kolomna)

Prospects of the use of gas-turbine locomotives. Zhel.-dor.transp. 45  
no.12:48-52 D '63. (MIRA 17:2)



PAVLOV, Konstantin Mikhaylovich; ZUBIYETOV, P.P., otd. red.;  
KHLEBNIKOVA, G.M., red.; TRISHINA, L.A., tekhn. red.

[Analysis and calculation of the network of an IF amplifier]  
Analiz i raschet skhemy usilitelia promezhutochnoi chastoty;  
rekomendovano predmetnoi komissiei VZTS po spetsial'nym ra-  
diotekhnicheskim distsiplinam v kachestve uchebnogo posobika  
dlia uchashchikhsia tekhnikumov sviazi. Moskva, Sviaz'izdat,  
1963. 22 p. (MIRA 16:10)

(Amplifiers, Electron-tube)  
(Radio—Receivers and reception)

FD-2258

USSR/Biology - Biochemistry  
KHLEBNIKOVA, I. M.  
Card 1/1 Pub 17-9/20

Author : Khlebnikova, I. M.

Title : Activity of blood fibrinogenase in insulin shock, electroshock, and epileptic seizure.

Periodical : Byul. eksp. biol. i med. 3, 33-36, Mar 1955

Abstract : Determined the activity of blood fibrinogenase in the mentally ill prior to and after the action on their central nervous system of such therapeutic measures as insulin shock and electroshock, and also spontaneously occurring epileptic seizures. Table. Thirteen references, 7 USSR, all of these since 1940.

Institution: Chair of Biochemistry (Head-Prof. V. S. Il'in) of the Institute for the Improvement of Doctors imeni S. M. Kirov (Director-Prof. N. N. Mishchuk), Leningrad

Submitted : April 7, 1954 by N. V. Konovalov, Member of the Academy of Medical Sciences USSR

KHLEBNIKOVA, I. M.

Effect of polyvinol on the rate of incorporation of methicmine-S<sup>35</sup>  
into liver and plasma proteins in exsanguinated rabbits. Vop. med.  
khim. 1C no. 3:256-261 My-Je '64. (MIRA 18:2)

1. Laboratoriya polimerov Leningradskogo nauchno-issledovatel'-  
skogo instituta perslivaniya krovi.

KHLEBNIKOVA, I.M.; SENCHILO, Ye.A., kand.med.nauk

Effect of polyvinol on the liver function in surgical patients.  
Vest. khir. 93 no.9:40-46 S '64. (MIRA 18:4)

1. Iz laboratorii polimerov (zav. - kand. biolog. nauk Ye.A. Chaplygina) i khirurgicheskoy kliniki (nauchnyy rukovoditel' - prof. A.N. Filatov) Leningradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi.

KHLEBNIKOVA, I.M.

Study of the effect of plasma-substituting solution of polyvinyl  
on the renal function in dogs. Pat. fiziol. i eksp. terap. 9 no.2:  
70-71 Mr-Ap '65. (MIRA 18:5)

1. Laboratoriya polimerov (rukoditele' - doktor biologicheskikh  
nauk Z.A.Chaplygina) Leningradskogo instituta perelivaniya krovi  
(dir. - dotsent A.D.Belyakov).

KLYUCHAROV, Ya.V.; KHLEBNIKOV, I.V.

Phase chemical analysis of the system  $MgO - Cr_2O_3 - SiO_2$ .  
Zhur. prikl. khim. 38 no.5:1139-1143 Ky '65.  
(MIDA 18:11)

L 12828-63	E7(1)/EWC(k)/BDS/ES(B)-2	AFFTC/ASD/ESD-3/SSD	Pz-4/Pt-4
AT		S/2927/62/000/000/0300/0310 68	
ACCESSION NR: AT3003024			
AUTHOR: Cheglokov, Ye. I.; Kuletnikova, L. V.			
TITLE: Rectification with a dielectric-layer contact [Report at the All-Union Conference on Semiconductor Devices, Tashkent, 2-7 October, 1961]			
SOURCE: Elektronno-dy*rochnyye perekhody v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 300-310			
TOPIC TAGS: rectification, dielectric-layer contact			
<p>ABSTRACT: A quantitative theory is offered of rectification at the contact of two dissimilar metals with a dielectric layer between them. Fundamental differential equations and the self-consistent potential in the dielectric are considered. The current-voltage characteristic and the rectification factor formula are developed. Some peculiarities of a metal-dielectric-semiconductor contact are examined. The following conclusions are arrived at: (1) if the metal contact potential difference considerably exceeds the average thermal energy of electrons in the crystal, and if the dielectric thickness does not exceed the minimum Debye's length, the metal-dielectric-metal contact will have rectifying properties; (2) the maximum rectification factor is determined by the metal contact potential</p>			
Card 1/2			